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called ambiguous all results which gave a shorter sensory reaction time. Professor Baldwin also very interestingly shows, in another essay, that his theory fits in well with the facts of sensory and motor aphasias.

The other experimental papers are of no great importance. The *Fragments* close with five short papers on miscellaneous subjects. The volume is admirably printed and bound, but on the whole the essays themselves are of such slight permanent value as hardly to justify a second publication in this form.

**Theoretical Biology.** — Professor Reinke of Kiel has written<sup>1</sup> an introduction to theoretical biology which treats of the fundamental biological problems in their metaphysical aspects. The work is thus predominantly philosophical in its purpose and form. He discusses vitalism and materialism, "Naturphilosophie," teleology, and adaptation, its content, origin and inheritance. The concepts of matter, energy, force, law, and form in their relation to organization as seen in the living world are discussed at length. The author introduces the idea of dominants or "unbewusst intellegeranten Kräfte" as supplementary to the energy which operates by chemical processes the highly differentiated mechanism of the living organism. Dominants are not identical, in the author's view, with the old vital force, but like the mechanism have their basis in the structure of the organism. The biological sections of the work all of which are correlated with the fundamental problems discussed elsewhere deal with the attributes and functions of protoplasm and the cell and with the development and differentiation of organisms. Incidentally the problems of sexuality, fertilization and heredity are touched upon. In closing, the author calls attention to the similarity of his views and those of Johannes Müller. The illustrative matter is drawn largely from botanical sources. The scope of the work and the clearness with which it is written make the book of general interest and value.

<sup>1</sup> Reinke, J. *Einleitung in die theoretische Biologie.* Pp. xv, 637. Mit. 83 Abb. in Text. Berlin, Gebrüder Pätel. 1901. M. 18. —